

Claims

- [c1] A transponder-reader transaction system configured with a biometric security system, said system comprising:
 - a transponder configured to communicate with a reader;
 - a reader configured to communicate with said system;
 - a facial scan sensor configured to detect a proffered facial scan sample, said facial scan sensor configured to communicate with said system; and,
 - a device configured to verify said proffered facial scan sample to facilitate a transaction.
- [c2] The transponder-reader transaction system of claim 1, wherein said sensor is configured to communicate with said system via at least one of a transponder, a reader, and a network.
- [c3] The transponder-reader transaction system of claim 1, wherein said facial scan sensor is configured to facilitate a finite number of scans.
- [c4] The transponder-reader transaction system of claim 1, wherein said facial scan sensor is configured to log at least one of a detected facial scan sample, processed fa-

cial scan sample and stored facial scan sample.

- [c5] The transponder-reader transaction system of claim 1, further including a database configured to store at least one data packet, wherein said data packet includes at least one of proffered and registered facial scan samples, proffered and registered user information, terrorist information, and criminal information.
- [c6] The transponder-reader transaction system of claim 5, wherein said database is contained in at least one of the transponder, transponder reader, sensor, remote server, merchant server and transponder-reader system.
- [c7] The transponder-reader transaction system of claim 6, wherein said remote database is configured to be operated by an authorized sample receiver.
- [c8] The transponder-reader transaction system of claim 1, wherein said facial scan sensor device is configured with at least one of an optical scanner and video camera.
- [c9] The transponder-reader transaction system of claim 1, wherein said facial scan sensor device is configured to detect and verify facial scan characteristics including at least one of nodal points, the distance between the eyes, the width of the nose, the jaw line, and the depth of the eye sockets.

- [c10] The transponder-reader transaction system of claim 1, wherein said facial scan sensor device is configured to detect and verify pupil dilation, pressure, blinking, motion, and body heat.
- [c11] The transponder-reader transaction system of claim 1, further including a device configured to compare a preferred facial scan sample with a stored facial scan sample.
- [c12] The transponder-reader transaction system of claim 11, wherein said device configured to compare a facial scan sample is at least one of a third-party security vendor device and protocol/sequence controller.
- [c13] The transponder-reader transaction system of claim 11, wherein a stored facial scan sample comprises a registered facial scan sample.
- [c14] The transponder-reader transaction system of claim 13, wherein said registered facial scan sample is associated with at least one of: personal information, credit card information, debit card information, savings account information, and loyalty point information.
- [c15] The transponder-reader transaction system of claim 14, wherein different registered facial scan samples are associated with a different one of: personal information,

credit card information, debit card information, savings account information, and loyalty point information.

- [c16] The transponder-reader transaction system of claim 14, wherein a facial scan sample is primarily associated with at least one of first user information, wherein said first information comprises personal information, credit card information, debit card information, savings account information, and loyalty point information, and wherein a facial scan sample is secondarily associated with at least one of second user information, wherein said second information comprises personal information, credit card information, debit card information, savings account information, and loyalty point information, where second user information is different than first user information.
- [c17] The transponder-reader transaction system of claim 1, wherein said transponder-reader transaction system is configured to begin mutual authentication upon verification of said proffered facial scan sample.
- [c18] The transponder-reader transaction system of claim 1, wherein said transponder is configured to deactivate upon rejection of said proffered facial scan sample.
- [c19] The transponder-reader transaction system of claim 1, wherein said sensor is configured to provide a notifica-

tion upon detection of a sample.

- [c20] The transponder-reader transaction system of claim 1, wherein said device configured to verify is configured to facilitate at least one of access, activation of a device, a financial transaction, and a non-financial transaction.
- [c21] The transponder-reader transaction system of claim 1, wherein said device configured to verify is configured to facilitate the use of at least one secondary security procedure.
- [c22] A method for facilitating biometric security in a transponder-reader transaction system comprising: proffering a facial scan to a facial scan sensor communicating with said system to initiate verification of a facial scan sample for facilitating authorization of a transaction.
- [c23] The method of claim 22, further comprising registering at least one facial scan sample with an authorized sample receiver.
- [c24] The method of claim 23, wherein said step of registering further includes at least one of: contacting said authorized sample receiver, proffering a facial scan to said authorized sample receiver, processing said facial scan to obtain a facial scan sample, associating said facial scan

sample with user information, verifying said facial scan sample, and storing said facial scan sample upon verification.

- [c25] The method of claim 22, wherein said step of proffering includes proffering a facial scan to at least one of an optical scanner and video camera.
- [c26] The method of claim 22, wherein said step of proffering further includes proffering a facial scan to a facial scan sensor communicating with said system to initiate at least one of: storing, comparing, and verifying said facial scan sample.
- [c27] The method of claim 22, wherein said step of proffering a facial scan to a facial scan sensor communicating with said system to initiate verification further includes processing database information, wherein said database information is contained in at least one of a transponder, transponder reader, sensor, remote server, merchant server and transponder-reader system.
- [c28] The method of claim 22, wherein said step of proffering a facial scan to a facial scan sensor communicating with said system to initiate verification further includes comparing a proffered facial scan sample with a stored facial scan sample.

- [c29] The method of claim 28, wherein said step of comparing includes comparing a proffered facial scan sample to a stored facial scan sample by using at least one of a third-party security vendor device and protocol/sequence controller.
- [c30] The method of claim 28, wherein said step of comparing includes comparing nodal points.
- [c31] The method of claim 30, wherein said step of comparing nodal points comprises storing, processing and comparing at least one of the distance between the eyes, the width of the nose, the hairline, the jaw line, and the depth of the eye sockets.
- [c32] The method of claim 22, wherein said step of proffering a facial scan to a facial scan sensor communicating with said system further comprises using said facial scan sensor to detect at least one of pupil dilation, pressure, motion, and body heat.
- [c33] The method of claim 22, wherein said step of proffering a facial scan to a facial scan sensor communicating with said system to initiate verification further includes at least one of detecting, processing and storing at least one second proffered facial scan sample.

- [c34] The method of claim 22, wherein said step of proffering a facial scan to a facial scan sensor communicating with said system to initiate verification further includes the use of at least one secondary security procedure.
- [c35] A method for facilitating biometric security in a transponder-reader transaction system comprising:
 - detecting a proffered facial scan at a sensor communicating with said system to obtain a proffered facial scan sample;
 - verifying the proffered facial scan sample; and
 - authorizing a transaction to proceed upon verification of the proffered facial scan sample.
- [c36] The method of claim 35, wherein said step of detecting further includes detecting a proffered facial scan at a sensor configured to communicate with said system via at least one of a transponder, reader, and network.
- [c37] The method of claim 35, wherein said step of detecting a proffered facial scan includes detecting a proffered facial scan at one of a video camera and optical scanner.
- [c38] The method of claim 35, wherein said step of detecting includes at least one of: detecting, storing, and processing a proffered facial scan sample.
- [c39] The method of claim 35, wherein said step of detecting

further includes receiving a finite number of proffered facial scan samples during a transaction.

- [c40] The method of claim 35, wherein said step of detecting further includes logging each proffered facial scan sample.
- [c41] The method of claim 35, wherein said step of detecting further includes at least one of detection, processing and storing at least one second proffered facial scan sample.
- [c42] The method of claim 35, wherein said step of detecting further includes using said facial scan sensor to detect at least one of pupil dilation, pressure, motion, and body heat.
- [c43] The method of claim 35, wherein said step of verifying includes comparing a proffered facial scan sample with a stored facial scan sample.
- [c44] The method of claim 43, wherein said step of comparing a proffered facial scan sample with a stored facial scan sample comprises storing, processing and comparing at least one nodal point.
- [c45] The method of claim 43, wherein comparing a proffered facial scan sample with a stored facial scan sample includes comparing a proffered facial scan sample with at

least one of a biometric sample of a criminal, a terrorist, and a transponder user.

- [c46] The method of claim 35, wherein said step of verifying includes verifying a proffered facial scan sample using information contained on at least one of a local database, a remote database, and a third-party controlled database.
- [c47] The method of claim 35, wherein said step of verifying includes verifying a proffered facial scan sample using one of a protocol/sequence controller and a third-party security vendor.